



Tecumseh

Performance Data Sheet

THG1352YGS

General Information

Model	THG1352YGS	Refrigerant	R-134a
Test Condition	ASHRAE	Performance Test Voltage	220V ~ 50HZ
Return Gas	32.2°C (90°F) RETURN GAS	Motor Type	N/A

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-40	Btu/h	193	178	146	108
	Watts (Power)	67.5	67.3	65.1	61.7
	Amps	0.83	0.81	0.80	0.80
	Lb/h	2.46	2.20	1.75	1.22
-35	Btu/h	275	256	221	180
	Watts (Power)	77.1	78.3	77.2	74.7
	Amps	0.83	0.81	0.81	0.81
	Lb/h	3.53	3.26	2.79	2.24
-30	Btu/h	378	355	316	273
	Watts (Power)	87.3	90.4	90.8	89.8
	Amps	0.85	0.84	0.83	0.83
	Lb/h	4.84	4.55	4.05	3.47
-25	Btu/h	504	476	434	388
	Watts (Power)	97.7	103	106	106
	Amps	0.87	0.87	0.87	0.87
	Lb/h	6.44	6.11	5.58	4.97
-23.3	Btu/h	552	523	479	432
	Watts (Power)	101	107	111	112
	Amps	0.88	0.88	0.89	0.89
	Lb/h	7.05	6.71	6.17	5.54
-20	Btu/h	652	621	575	526
	Watts (Power)	108	116	121	124
	Amps	0.89	0.90	0.92	0.92
	Lb/h	8.35	7.99	7.42	6.76
-15	Btu/h	825	789	740	688
	Watts (Power)	118	129	137	143
	Amps	0.91	0.94	0.97	0.98
	Lb/h	10.6	10.2	9.60	8.89
-10	Btu/h	1020	983	930	875
	Watts (Power)	127	142	154	163
	Amps	0.92	0.97	1.01	1.04
	Lb/h	13.3	12.8	12.2	11.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.476459E+03	3.637234E+01	5.746910E-01	1.922261E+01
C2	5.703655E+01	-2.047091E+00	-2.644255E-02	8.041933E-01
C3	7.366787E+00	4.533667E+00	1.082560E-02	1.112120E-01
C4	5.705524E-01	-6.314711E-02	-6.504402E-04	1.078637E-02
C5	-1.532665E-01	1.132445E-01	7.880896E-04	-1.072366E-03
C6	-2.741457E-01	-3.928763E-02	3.158131E-05	-3.428595E-03
C7	1.375672E-03	-4.346608E-04	-7.243212E-06	5.279411E-05
C8	-8.886909E-05	9.445961E-04	5.221595E-06	-1.396140E-05
C9	8.600728E-04	-2.182332E-04	-4.073442E-06	-3.814260E-06
C10	1.842135E-03	1.655163E-04	-9.896090E-07	1.932276E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Tecumseh

Performance Data Sheet

THG1352YGS

General Information

Model	THG1352YGS	Refrigerant	R-134a
Test Condition	ASHRAE	Performance Test Voltage	220V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	Motor Type	N/A

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-40	Btu/h	219	197	190	196
	Watts (Power)	67.4	68.1	70.9	75.1
	Amps	0.65	0.68	0.69	0.70
	Lb/h	2.62	2.38	2.29	2.35
-35	Btu/h	333	292	259	234
	Watts (Power)	83.5	82.4	82.6	83.4
	Amps	0.68	0.70	0.70	0.70
	Lb/h	4.08	3.58	3.19	2.87
-30	Btu/h	465	413	363	314
	Watts (Power)	99.0	98.2	97.8	97.1
	Amps	0.73	0.74	0.74	0.74
	Lb/h	5.74	5.09	4.48	3.89
-25	Btu/h	616	560	501	437
	Watts (Power)	113	115	116	116
	Amps	0.77	0.80	0.80	0.80
	Lb/h	7.62	6.92	6.19	5.42
-23.3	Btu/h	671	616	556	488
	Watts (Power)	118	121	123	123
	Amps	0.79	0.82	0.82	0.82
	Lb/h	8.31	7.62	6.87	6.05
-20	Btu/h	783	733	673	602
	Watts (Power)	127	132	137	139
	Amps	0.82	0.86	0.87	0.88
	Lb/h	9.73	9.08	8.33	7.47
-15	Btu/h	968	931	878	807
	Watts (Power)	138	150	159	166
	Amps	0.86	0.92	0.96	0.98
	Lb/h	12.1	11.6	10.9	10.1
-10	Btu/h	1170	1150	1120	1050
	Watts (Power)	147	167	184	197
	Amps	0.89	0.99	1.05	1.11
	Lb/h	14.7	14.5	14.0	13.2

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.269877E+03	6.931547E+00	-2.503009E-02	1.749911E+01
C2	1.593030E+01	-8.639469E+00	-3.220880E-02	3.121990E-01
C3	1.643674E+01	5.394403E+00	4.625076E-02	1.576886E-01
C4	-1.859871E-01	-1.912364E-01	-7.703418E-04	5.950456E-04
C5	1.253475E+00	3.221773E-01	1.207620E-03	1.412119E-02
C6	-1.553003E-01	-1.090248E-02	-5.728744E-04	-1.379551E-03
C7	-6.844709E-04	-5.908941E-04	-3.832159E-06	2.241088E-05
C8	1.614470E-02	3.950563E-03	1.605290E-05	1.943086E-04
C9	-6.107516E-03	-8.613423E-04	-2.522989E-06	-6.412878E-05
C10	-1.432491E-04	-1.099702E-04	3.269243E-06	-3.108298E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature